



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I

J.F.K. FEDERAL BUILDING, BOSTON, MA 02203-2211

MEMORANDUM

DATE: December 2, 1991

SUBJ: Final Sampling Effort Memo
Bridgeport Name Plate, Inc.
Monroe, Connecticut
TDD No. F1-9105-01
Reference No. \$375CTY7I\$I
CERCLIS No. CTD011184272

FROM: Jane Anderson *JMA*
CT Site Assessment Manager

TO: File

Bridgeport Name Plate operated at 585 Fan Hill Road in Monroe, Connecticut from 1974 to 1988. During that time, the company manufactured signs, instruction plates, dials, and other similar items of aluminum and steel. Liquid waste from these manufacturing processes was disposed of in a drywell on site. The property is currently occupied by Horizon Engineering.

On Wednesday August 7, 1991, NUS/FIT personnel conducted a site reconnaissance and ground water sampling activities at Bridgeport Name Plate, Inc. (Figures 1 and 2). A total of five aqueous samples were collected, including one replicate and two trip blanks. Sample matrix, sample locations, sample numbers, sample source, and remarks are presented in Table 1. The reader is referred to Figure 2 for the sample locations. All samples were analyzed through the U.S. EPA Contract Laboratory Program (CLP) for Special Analytical Services (SAS) volatile organic and Regular Analytical Services (RAS) semi-volatile organic and inorganic analyses. A replicate sample was not collected for the RAS samples and an upgradient reference ground water sample could not be obtained; therefore, the tap water samples from 585 and 591 Fan Hill Road are compared to the final Federal Maximum Contaminant Levels (MCLs) for drinking water or the Contract Required Detection Limit (CRDL). Analytical sample results for all samples are enclosed in Attachment A.

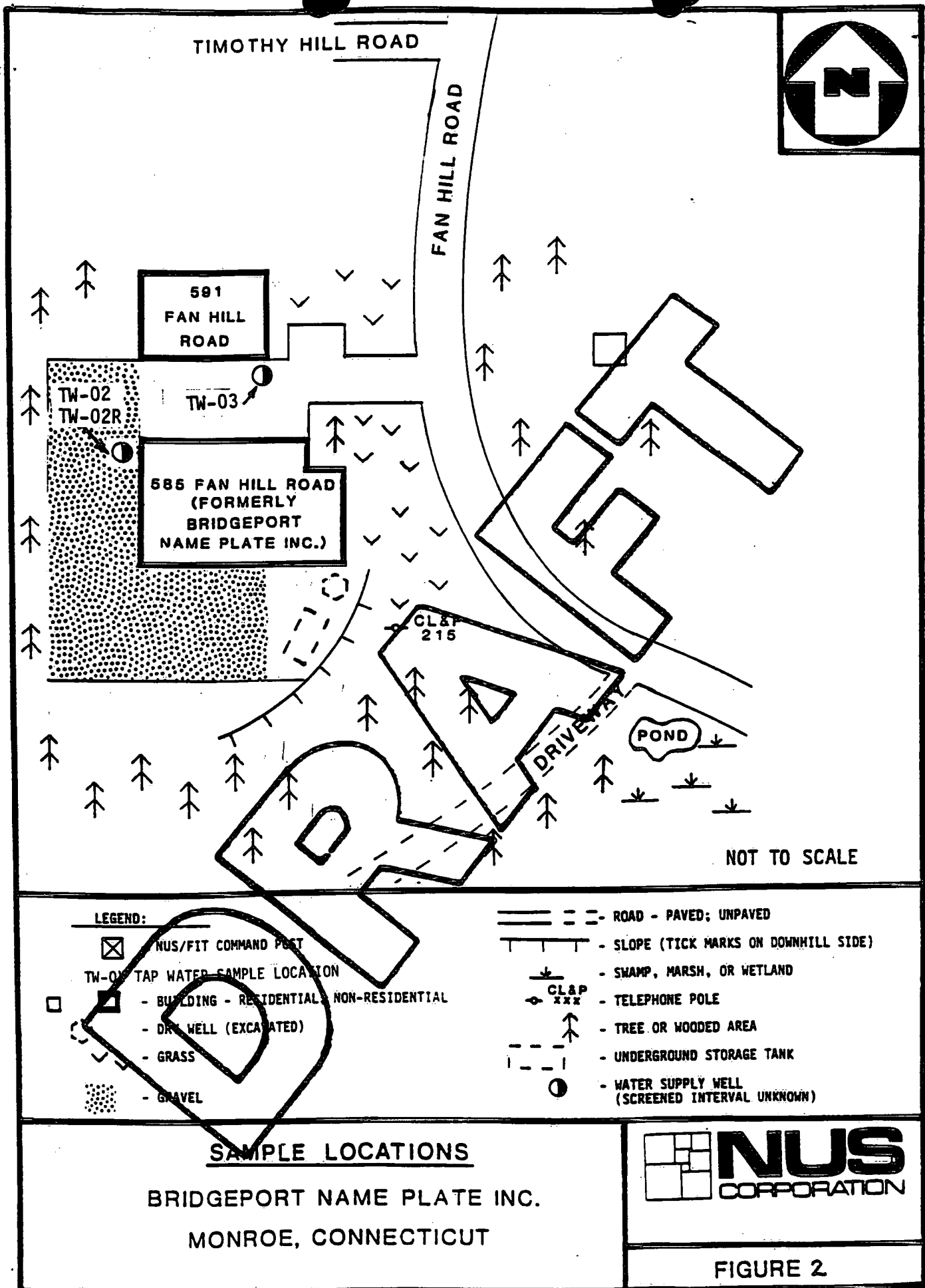


Table 1
SAMPLE SUMMARY
BRIDGEPORT NAME PLATE, INC.
MONROE, CONNECTICUT

Samples collected by NUS/FIT on August 7, 1991*

Sample Location #	NUS/FIT Sample #	Sample Type	Sample Source & Location
Tap water samples:			
TW-01	22990	Grab	Trip blank for quality control for SAS samples
TW-02	22991	Grab	Tap water sample collected from the well at 585 Fan Hill Road
TW-02R	22992	Grab	Replicate sample of TW-02 for quality control
TW-03	23295	Grab	Tap water sample collected from the well at 591 Fan Hill Road
GW-01	22994	Grab	Trip blank for quality control for RAS samples

* Sample locations depicted on Figure 2.

<u>Compound/element</u>	<u>Highest Concentration Detected</u>	<u>Maximum Contaminant Level</u>	<u>CRQL</u>
cis-1,2-dichloroethene	0.5J ppb	NA	2 ppb
1,1,1-trichloroethane	0.9J ppb	200 ppb	2 ppb
trichloroethene	0.7J ppb	5 ppb	2 ppb
tetrachloroethene	5J ppb	NA	2 ppb
calcium	6610J ppb	NA	77 ppb
copper	131 ppb	NA	16 ppb
magnesium	772 ppb	NA	118 ppb
manganese	2J ppb	NA	2 ppb
potassium	1680 ppb	NA	810 ppb
sodium	2240 ppb	NA	118 ppb
zinc	491 ppb	NA	12 ppb

Note: J - Quantitation is approximate due to limitations
identified during the quality control review
ppb - parts per billion

Four volatile organic compounds were detected in ground water samples, at concentrations ranging from 0.3J ppb to 5.0J ppb. Seven inorganic elements were detected in ground water samples at concentrations ranging from 2.0 ppb to 6,610 ppb.

This memo was finalized by EPA due to the expiration of the FIT contract.

The figures and tables should be considered final.

ATTACHMENT A
CLP Analytical Results for aqueous samples
collected by NUS/FIT from Bridgeport Name Plate, Inc.
on August 7, 1991

TABLE 1
Volatile Organic Analytical Results

TABLE 2
Semi-volatile Organic Analytical Results

TABLE 3
Inorganic Analytical Results

TABLE 1 PAGE 1 OF 2
 BRIDGEPORT NAME PLATE, INC.
 AUGUST 7, 1991
 CLP SAS VOLATILE ORGANIC ANALYSIS
 GROUNDWATER ANALYTICAL RESULTS (UG/L)

Sample Location		YW-01	YW-02	YW-02R	YW-03
Sample Number		22990	22991	22992	22993
Traffic Report Number		6586a-1	6586a-2	6586a-3	6586a-4
Date Sampled		8/7/91	8/7/91	8/7/91	8/7/91
Date Analyzed		8/27/91	8/27/91	8/27/91	8/27/91
Dilution Factor		1.0	1.0	1.0	1.0
Remarks		BLANK		REPLICATE	
VOLATILE ORGANIC COMPOUND	CRQL*				
Dichlorodifluoromethane	2				
Chloroethane	2				
Bromoethane	2				
Vinyl Chloride	2				
Chloroethane	2				
Trichlorofluoromethane	2				
Acetone	5	0.3 J			
Methylene Chloride	5	0.5 J	58 UJ	63 UJ	58 UJ
2-Butanone	5	0.9 J			
Carbon Disulfide	2	R	R	R	R
1,1-Dichloroethene	2				
1,1-Dichloroethane	2				
trans-1,2-Dichloroethene	2				
2,2-Dichloropropane	2				
cis-1,2-Dichloroethene	2				0.5 J
Bromochloromethane	2				
1,1-Dichloropropylene	2				
Chloroform	2				
1,2-Dichloroethane	2				
1,1,1-Trichloroethane	2		0.8 J	0.9 J	0.3 J
Carbon Tetrachloride	2				
Dibromomethane	2				
Bromodichloromethane	2				
1,2-Dichloropropane	2				
cis-1,3-Dichloropropene	2				
Trichloroethene	2		0.5 J	0.7 J	2 J
Dibromochloromethane	2				
1,1,2-Trichloroethane	2				

TABLE 1, PAGE 2 OF 2
 BRIDGEPORT NAME PLATE, INC.
 AUGUST 7, 1991
 CLP SAS VOLATILE ORGANIC ANALYSIS
 GROUNDWATER ANALYTICAL RESULTS (UG/L)

Sample Location	YW-01	YW-02	YW-02R	YW-03
Sample Number	22990	22991	22992	22993
Traffic Report Number	6586a-1	6586a-2	6586a-3	6586a-4
Date Sampled	8/7/91	8/7/91	8/7/91	8/7/91
Date Analyzed	8/27/91	8/27/91	8/27/91	8/27/91
Dilution Factor	1.0	1.0	1.0	1.0
Remarks	BLANK		REPLICATE	
VOLATILE ORGANIC COMPOUND				
Benzene				
2-Hexanone	R	R	R	R
1-Methyl-2-pentanone	R	R	R	R
1,3-Dichloropropane				
trans-1,2-Dichloropropene				
Bromoform				
1,2-Dibromoethane				
Tetrachloroethene		4 J	5 J	5 J
1,1,1,2-Tetrachloroethane				
1,1,2,2-Tetrachloroethane				
Toluene	0.4 J			
Chlorobenzene				
Ethylbenzene				
Styrene				
Xylene (total)				
Isopropylbenzene				
Bromobenzene				
1,2,3-Trichloropropane				
n-Propyl Benzene				
2-Chlorotoluene				
4-Chlorotoluene				
1,3,5-trimethylbenzene				
tert-butylbenzene				
1,2,4-Trimethylbenzene				
sec-Butylbenzene				
1,3-Dichlorobenzene				
1,4-Dichlorobenzene				
p-Isopropyltoluene				
1,2-Dichlorobenzene				
n-Butylbenzene				
1,2-Dibromo-3-Chloropropane	R	R	R	R
1,2,4-trichlorobenzene				
Naphthalene				
Hexachlorobutadiene				
1,2,3-Trichlorobenzene				

NOTE: A blank space indicates the compound was not detected.
 J Quantitation is approximate due to limitations identified during the quality control review.
 R Value is rejected.
 UJ Quantitation Limit is approximate due to limitations identified in the quality control review.
 CRQL Contract Required Quantitation Limit.
 * The non-detected sample results for all samples are estimated (UJ), due exceeded holding time.

TABLE 2 Page 1 of 2
 BRIDGEPORT NAME PLATE, INC.
 AUGUST 7, 1991
 CLP EXTRACTABLE ORGANIC ANALYSIS
 AQUEOUS ANALYTICAL RESULTS (UG/L)

Sample Location		GW-01	TW-02	TW-03
Sample Number		22994	22991	22993
Traffic Report Number		AAP17	AAP15	AAP16
Date Sampled		08/07/91	08/07/91	08/07/91
Date Extracted		08/12/91	08/12/91	08/12/91
Date Analyzed		08/17/91	08/15/91	08/15/91
Dilution Factor		1.0	1.0	1.0
Remarks		BLANK		
SEMI-VOLATILE COMPOUND	CRCL			
Phenol	10			
bis (2-Chloroethyl) ether	10			
2-Chlorophenol	10			
1,3-Dichlorobenzene	10			
1,4-Dichlorobenzene	10			
1,2-Dichlorobenzene	10			
2-Methylphenol	10			
2,2'-Oxybis(1-Chloropropane)	10			
4-Methylphenol	10			
N-Nitroso-di-n-propylamine	10			
Hexachloroethane	10			
Nitrobenzene	10			
Isophorone	10			
2-Nitrophenol	10			
2,4-Dimethylphenol	10			
bis (2-Chloroethoxy) methane	10			
2,4-Dichlorophenol	10			
1,2,4-Trichlorobenzene	10			
Naphthalene	10			
4-Chloroaniline	10	10 UJ	10 UJ	10 UJ
Hexachlorobutadiene	10			
4-Chloro-3-methylphenol	10			
2-Methylnaphthalene	10			
Hexachlorocyclopentadiene	10			
2,4,6-Trichlorophenol	10			
2,4,5-Trichlorophenol	25			
2-Chloronaphthalene	10			
2-Nitroaniline	25			
Dimethylphthalate	10			
Acenaphthylene	10			
2,6-Dinitrotoluene	10			
3-Nitroaniline	25			
Acenaphthene	10			

TABLE 2 Page 2 of 2
 BRIDGEPORT NAME PLATE, INC.
 AUGUST 7, 1991
 CLP EXTRACTABLE ORGANIC ANALYSIS
 GROUNDWATER ANALYTICAL RESULTS (UG/L)

Sample Location		GW-01	TW-02	TW-03
Sample Number		22994	22991	22993
Transit Report Number		AAP17	AAP15	AAP16
Date Sampled		08/07/91	08/07/91	08/07/91
Date Extracted		08/12/91	08/12/91	08/12/91
Date Analyzed		08/17/91	08/15/91	08/15/91
Dilution Factor		1.0	1.0	1.0
Remarks		BLANK		
SEMI-VOLATILE COMPOUND	CRQL			
4-Nitrophenol	25			
Dibenzofuran	10			
2,4-Dinitrofluorene	10			
Diethylphthalate	10			
4-Chlorophenyl-phenylether	10			
Fluorene	10			
4-Nitroaniline	25			
4,6-Dinitro-2-methylphenol	25			
N-Nitrosodiphenylamine	10			
4-Bromophenyl-phenylether	10			
Hexachlorobenzene	10			
Pentachlorophenol	25			
Phenanthrene	10			
Anthracene	10			
Carbazole	10			
Di-n-butylphthalate	10	1 J		
Fluoranthene	10			
Pyrene	10			
Butylbenzylphthalate	10			
3,3'-Dichlorobenzidine	20			
Benzo(a)anthracene	10			
Chrysene	10			
bis(2-Ethylhexyl)phthalate	10	1 J		
Di-n-octyl phthalate	10			
Benzo(b)fluoranthene	10			
Benzo(k)fluoranthene	10			
Benzo(a)pyrene	10			
Indeno (1,2,3-cd)pyrene	10			
Dibenz(a,h)anthracene	10			
Benzo(g,h,i)perylene	10			

NOTE: A blank space indicates the compound was not detected.
 J Quantitation is approximate due to limitations identified during the quality control review.
 CRQL Contract Required Quantitation Limit

TABLE 3 Page 1 of 1
BRIDGEPORT NAME PLATE, INC.
AUGUST 7, 1991
CLP INORGANIC ANALYSIS
AQUEOUS ANALYTICAL RESULTS (ug/L)

Sample Location			GW-01	YW-02	YW-03
Sample Number			22994	22991	22993
Traffic Report Number			MAW709	MAW707	MAW708
Date Sampled			08/07/91	08/07/91	08/07/91
Date Analyzed ICP			09/03/91	09/03/91	09/03/91
Dilution Factor ICP			1.0	1.0	1.0
Remarks			BLANK		
INORGANIC ELEMENTS			IDL (ug/L)		
Aluminum	P	23.0	51.0	46.0 U	45.0 UJ
Antimony	P	32.0	37.0	42.0 UJ	43.0 UJ
Arsenic	F	4.0			
Barium	P	5.0			
Beryllium	P	1.0	4.0	4.0 U	4.0 U
Cadmium	P	4.0			
Calcium	P	77.0	150 J	6840 J	4050 J
Chromium	P	5.0	5.0 J	9.0 UJ	5.0 UJ
Cobalt	P	17.0			
Copper	P	16.0	16.0 UJ	131	107
Iron	P	95.0	95.0 UJ	95.0 UJ	95.0 UJ
Lead	F	1.0		3 UJ	2.1 UJ
Magnesium	P	118.0		772	659
Manganese	P	2.0			2.0 J
Mercury	CV	0.20	0.2 UJ	0.2 UJ	0.2 UJ
Nickel	P	27.0			
Potassium	P	810.0		1680	1180 J
Selenium	F	5.0	5.0 UJ	5.0 UJ	5.0 UJ
Silver	P	7.0	7.0 UJ	7.0 UJ	7.0 UJ
Sodium	P	118.0	194 J	2240	2130
Thallium	F	4.0	4.0 UJ		
Vanadium	P	7.0			
Zinc	P	12		20.0 UJ	491
Cyanide	C	NA	NA	NA	NA

Analytical Method
F Furnace AA
P ICP/Flame AA
CV Cold Vapor
C Colorimetric

NOTE:

A blank space indicates the element was not detected.
J Quantitation is approximate due to limitations identified during the quality control review.
UJ Quantitation is approximate due to limitations identified during the quality control review.
U Instrument Detection Limit
NA Not Analyzed